DevOps Assignment Submission Template

1. Student Details
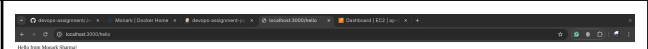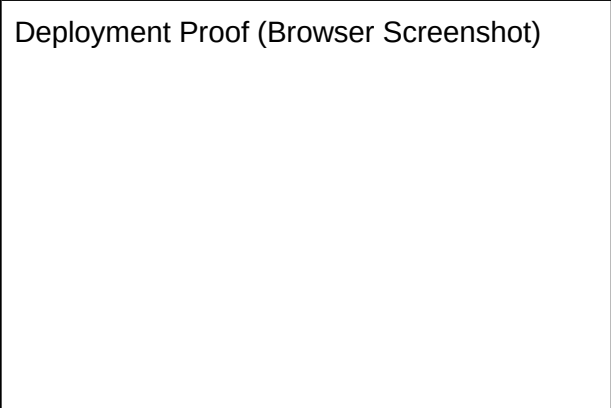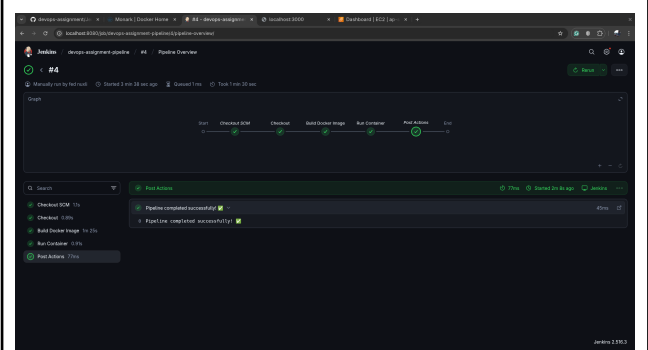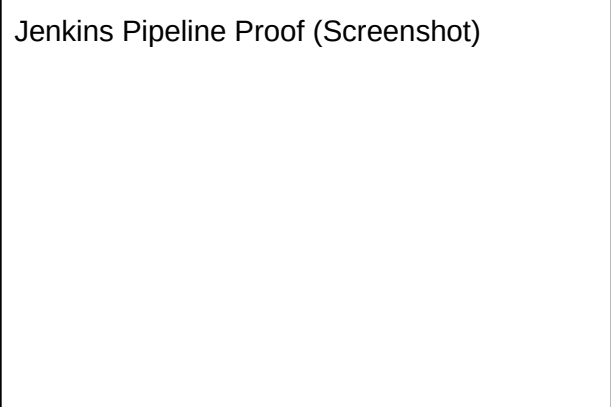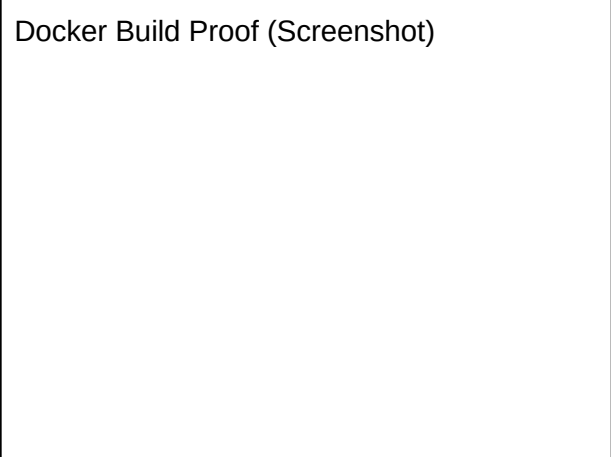
Field	Information
Name	Monark Lokeshbhai Sharma
Email	monarksharma41@gmail.com
College/Institute	Anand Institute of Management and Information Science, GTU
Date of Submission	03/10/2025

2. Assignment Details

Field	Information
Assignment Title	DevOps Practical Assignment
Repository Name	https://github.com/monark04/devops-assignment
Feature Branch Name	feature/monark-hello-route

3. Deliverables

Deliverable	Details / Links / Screenshots
GitHub Repository URL	Link
Pull Request Link (Attach Screenshot Below)	Link

Docker Build Proof (Screenshot)	
Jenkins Pipeline Proof (Screenshot)	
Deployment Proof (Browser Screenshot)	
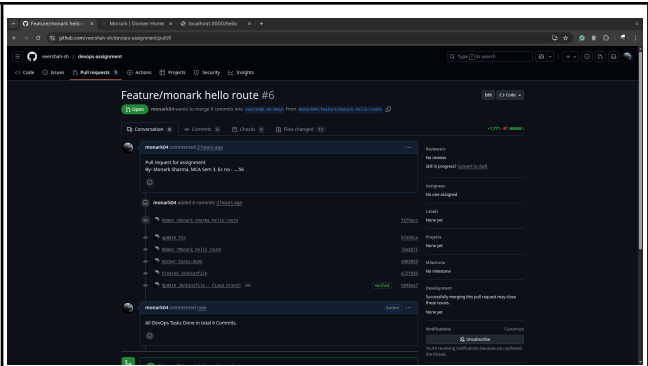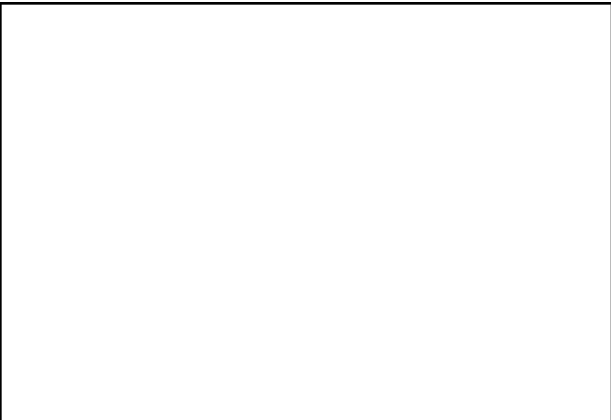
4. Notes

While completing this assignment I faced many minor errors but one major and worth learning error was when my pipeline failed for 3 consecutive times with different errors, and the build was successful in 4th attempt. This made me learn how to troubleshoot a broken Jenkins pipeline by console output or by checking specific stage.

This was truly brainstorming assignment with industry-level hands-on experience.

NOTE – All the tasks are done on forked repository on feature/monark-hello-route branch. And the final stage was commited to main branch of assignment repository.
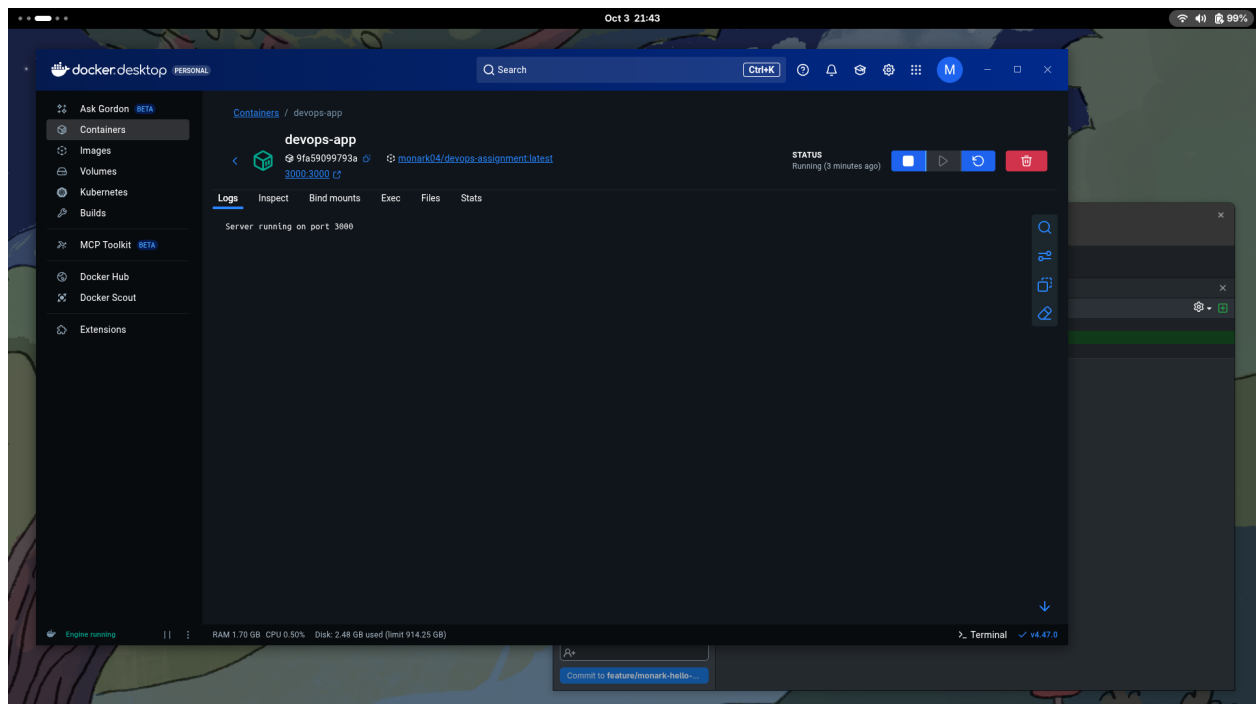
The branch contains dockerfile, Jenkinsfile and snapshots folder for screenshots of assignment. Refer below given repository link for all resources.
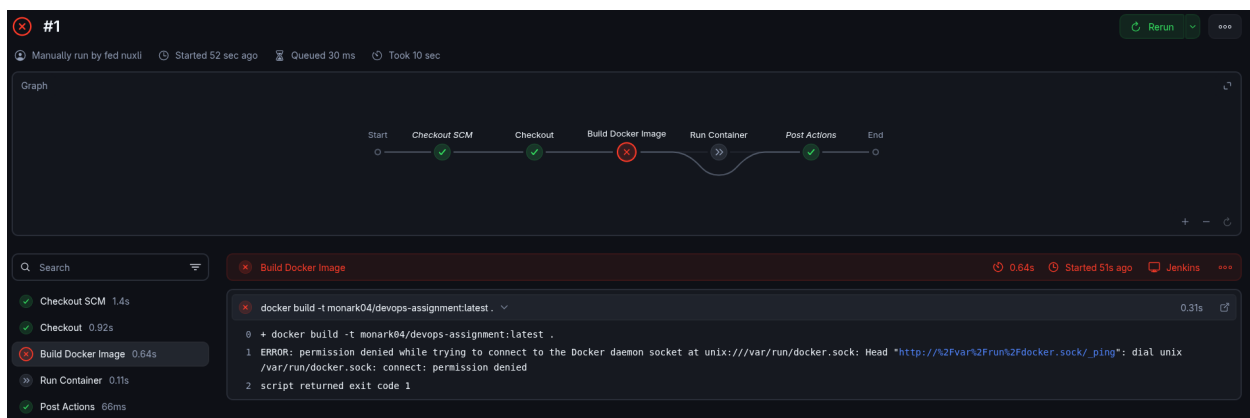
LINKS:

Repository Link: https://github.com/monark04/devops-assignment/tree/feature/monark-hello-route

All Screenshots attached:

Hello from Monark Sharma!

Oct 3 21:43

docker desktop PERSONAL

Search   Ctrl+K

Ask Gordon BETA
Containers
Images
Volumes
Kubernetes
Builds

MCP Toolkit BETA

Docker Hub
Docker Scout

Extensions

Containers / devops-app

devops-app

9fa59099793a   monark04/devops-assignment:latest
3000:3000

STATUS
Running (3 minutes ago)

Logs   Inspect   Bind mounts   Exec   Files   Stats

Server running on port 3000

Commit to feature/monark-hello-...

Engine running   RAM 1.70 GB CPU 0.50%   Disk: 2.48 GB used (limit 914.25 GB)   Terminal   v4.47.0

0 + docker build -t monark04/devops-assignment:latest .
1 ERROR: permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Head "http://%2Fvar%2Frun%2Fdocker.sock/_ping": dial unix /var/run/docker.sock: connect: permission denied
2 script returned exit code 1

localhost:8080/job/devops-assignment-pipeline/4/

Jenkins / devops-assignment-pipeline / #4

Status
Changes
Console Output
Edit Build Information
Delete build '#4'
Timings
Git Build Data
Pipeline Overview
Restart from Stage
Replay
Pipeline Steps
Workspaces
Previous Build

✅ #4 (03-Oct-2025, 10:10:27 pm)

Add description   Keep this build forever

Started by user fed nuxli

Started 2 min 24 sec ago
Took 1 min 30 sec

This run spent:

- 5 ms waiting;
- 1 min 30 sec build duration;
- 1 min 30 sec total from scheduled to completion.

Revision: b946ea705cdda9b908572340cdd45e75fca900d4
Repository: https://github.com/monark04/devops-assignment

- refs/remotes/origin/feature/monark-hello-route

No changes.

REST API   Jenkins 2.516.3

---

localhost:8080/job/devops-assignment-pipeline/4/timings/

Jenkins / devops-assignment-pipeline / #4 / Timings

Status
Changes
Console Output
Edit Build Information
Delete build '#4'
Timings
Git Build Data
Pipeline Overview
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Replay
Pipeline Steps
Workspaces
Previous Build

Timings

		Primary task	Including subtasks
In queue	Waiting	0 ms	0 ms
	Blocked	0 ms	0 ms
	Buildable	0 ms	3 ms
	Total	1 ms	5 ms
Building		1 min 30 sec	1 min 29 sec
Scheduled to completion		1 min 30 sec	
Number of subtasks		1	
Average executor utilization		1.0	

Jenkins 2.516.3

Jenkins / devops-assignment-pipeline / #4 / Pipeline Overview

✅ < **#4**   ↻ Rerun ∨   ∘∘∘

👤 Manually run by fed nuxli   🕐 Started 3 min 38 sec ago   ⧗ Queued 1 ms   🕐 Took 1 min 30 sec

Graph

```
                Start   Checkout SCM   Checkout   Build Docker Image   Run Container   Post Actions   End
                  ○────────✓─────────────✓─────────────✓──────────────────✓──────────────✓──────────○
```

🔍 Search   ⚓

✅ Checkout SCM 1.1s   ✅ Post Actions   🕐 77ms   🕐 Started 2m 8s ago   💻 Jenkins ∘∘∘

✅ Checkout 0.89s   ✅ Pipeline completed successfully! ✅ ∨   45ms ☐

✅ Build Docker Image 1m 25s   0   Pipeline completed successfully! ✅

✅ Run Container 0.91s

✅ Post Actions 77ms

Jenkins 2.516.3

🚀 Hello from Node.js app deployed via Jenkins + Docker!
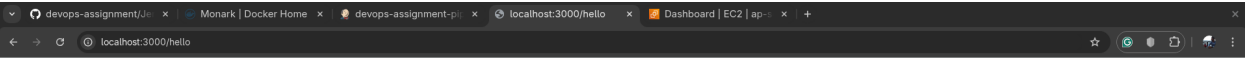
Hello from Monark Sharma!

Jenkins / devops-assignment-pipeline

- Status
- Changes
- Build Now
- Configure
- Delete Pipeline
- Stages
- Rename
- Pipeline Syntax

✓ **devops-assignment-pipeline**   ✎ Edit description

Pipeline for devops assignment - Jenkins Tasks

Permalinks

- Last build (#4), 4 min 37 sec ago
- Last stable build (#4), 4 min 37 sec ago
- Last successful build (#4), 4 min 37 sec ago
- Last failed build (#3), 7 min 16 sec ago
- Last unsuccessful build (#3), 7 min 16 sec ago
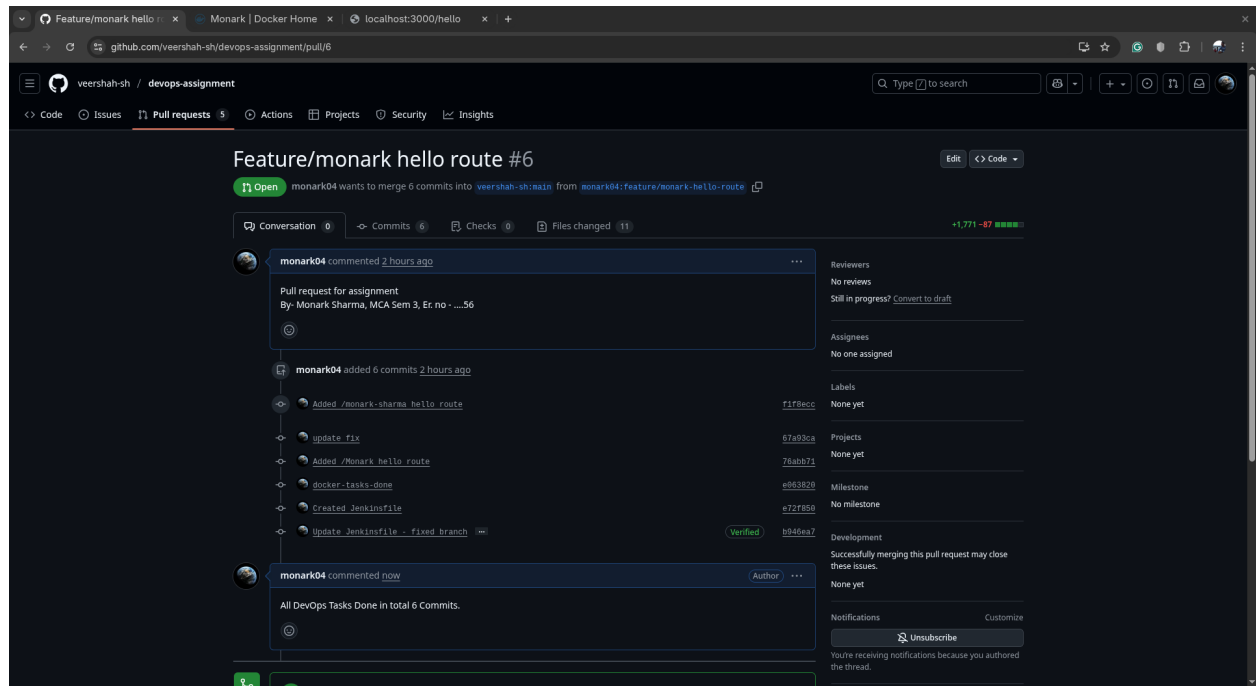- Last completed build (#4), 4 min 37 sec ago

Builds   ⋯ ⤢

🔍 Filter

Today
- ✓ #4 10:10 pm
- ✗ #3 10:07 pm
- ✗ #2 10:00 pm
- ✗ #1 9:58 pm

REST API   Jenkins 2.516.3

- Thank You -